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Amendments to the Claims

1. (currently amended) A method of using electromagnetic radiation to sense media speed ~~control exposure of media to electromagnetic radiation~~, the method comprising:

rotating the a media having a pattern of reflective and non-reflective regions aligned circularly about a rim of the media or a pattern of magnetic and non-magnetic regions aligned circularly about a rim of the media;

sensing a frequency of electromagnetic radiation radiating from the reflective regions of the pattern or from the magnetic regions of the pattern ~~a rim of the media~~ with a stationary detector; and

controlling, with the sensed frequency, ~~exposure of the media to electromagnetic radiation with a movable source~~ a rotational speed of the media.

2. (currently amended) The method of claim 1 further including determining from the sensed frequency a rotational speed of the media:

~~providing at least one reflective and one non-reflective region on the media, aligned circularly about the rim of the media,~~

~~emitting electromagnetic radiation onto the rim of the media as the media rotates, and~~

~~wherein the electromagnetic radiation radiated from the rim originated from the electromagnetic radiation source directed at the rim.~~

3. (currently amended) The method of claim 1 ~~[[2]]~~ wherein ~~providing the reflective and non-reflective regions includes providing the reflective and non-reflective regions in~~ the pattern comprises a spoke pattern on the media.

4. (currently amended) The method of claim 1 ~~[[2]]~~ wherein ~~providing the reflective and non-reflective regions includes providing the reflective and non-reflective regions in~~ the pattern comprises a gear-tooth pattern on the media.

5. (canceled).

6. (canceled).

7. (currently amended) The method of claim 1 wherein sensing the frequency of electromagnetic radiation radiating from the rim of the media includes sensing the frequency of electromagnetic radiation radiating from the rim comprises an inner rim of the media.

8. (currently amended) The method of claim 1 wherein sensing the frequency of electromagnetic radiation radiating from the rim of the media includes sensing the frequency of electromagnetic radiation radiating from the rim comprises an outer rim of the media.

9. (canceled).

10. (canceled).

11. (canceled).

12. (canceled).

13. (currently amended) A mass storage device comprising;
a rotation device configured to rotate mass storage media having a ~~rim~~
pattern of reflective and non-reflective regions aligned circularly about a rim of the
media or a pattern of magnetic and non-magnetic regions aligned circularly about a
rim of the media;

an electromagnetic radiation sensor configured to sense a frequency of
electromagnetic radiation radiated from the reflective regions of the pattern or from
the magnetic regions of the pattern ~~rim of the media~~ as the media rotates; and

~~an electromagnetic radiation emitter; and~~

a controller[[.]] coupled to the electromagnetic radiation sensor, the
controller configured to control, with a sensed frequency of electromagnetic radiation
radiated from ~~the rim~~ the reflective regions of the pattern or from the magnetic

~~regions of the pattern, a rotational speed of the media exposure of the media to electromagnetic radiation from the electromagnetic radiation emitter.~~

14. (currently amended) The mass storage device of claim 13 further including an electromagnetic radiation source directed at the rim, wherein ~~at least one reflective and one non-reflective region are aligned circularly on the media about the rim, and wherein the electromagnetic radiation radiated from the rim~~ reflective regions of the pattern or from the magnetic regions of the pattern originated from the electromagnetic radiation source directed at the rim.

15. (currently amended) The mass storage device of claim 13 14 wherein the sensor is disposed to sense electromagnetic radiation reflected from a spoke pattern on the media.

16. (currently amended) The mass storage device of claim 13 14 wherein the sensor is disposed to sense electromagnetic radiation reflected from a gear-tooth pattern on the media.

17. (original) The mass storage device of claim 14 the electromagnetic radiation source includes a coherent electromagnetic radiation source.

18. (original) The mass storage device of claim 14 the electromagnetic radiation source includes a non-coherent electromagnetic radiation source.

19. (original) The mass storage device of claim 13 wherein the rotation device includes:

- a spindle coupled to the media and
- a motor coupled to the spindle.

20. (currently amended) The mass storage device of claim 19 13 wherein the controller includes a motor controller configured to control the motor.

21. (currently amended) The mass storage device of claim 13 wherein the ~~sensor is disposed to sense electromagnetic radiation radiated from the~~ rim comprises an inner rim of the media.

22. (currently amended) The mass storage device of claim 13 wherein the ~~sensor is disposed to sense electromagnetic radiation radiated from the~~ rim comprises an outer rim of the media.

23. (canceled).

24. (canceled).

25. (original) The mass storage device of claim 13 wherein the controller includes radial positioner for controlling a placement of a beam of the electromagnetic radiation on the media.

26. (currently amended) A mass storage device having media that is rotateable, comprising;

means for sensing electromagnetic radiation with a stationary sensor from a ~~rim of the media~~ pattern of reflective and non-reflective regions aligned circularly about a rim of the media or a pattern of magnetic and non-magnetic regions aligned circularly about a rim of the media;

means for controlling the rotational speed of the media based on the sensed electromagnetic radiation;

means for positioning radially an electromagnetic source with respect to a surface of the media; and

means for controlling exposure of the media by the electromagnetic source in conjunction with the means for controlling and the means for positioning.

27. (currently amended) The mass storage device of claim 26 further including means for sourcing electromagnetic radiation directed at the rim, wherein ~~at least one reflective and one non-reflective region are aligned circularly on the~~

~~media about the rim, and wherein~~ the electromagnetic radiation radiated from the rim reflective regions of the pattern or from the magnetic regions of the pattern originated from the electromagnetic radiation source directed at the rim.

28. (original) The mass storage device of claim 27 wherein the means for sensing is disposed to sense electromagnetic radiation from a spoke pattern on the media.

29. (original) The mass storage device of claim 27 wherein the means for sensing is disposed to sense electromagnetic radiation from a gear-tooth pattern on the media.

30. (currently amended) The mass storage device of claim 27 wherein the means for sourcing electromagnetic radiation includes a coherent electromagnetic radiation source.

31. (currently amended) The mass storage device of claim 27 wherein the means for sourcing electromagnetic radiation includes a non-coherent electromagnetic radiation source.

32. (currently amended) The mass storage device of claim 27 wherein the means for sourcing electromagnetic radiation includes a coherent electromagnetic radiation emitter.

33. (currently amended) The mass storage device of claim 27 wherein the means for sourcing electromagnetic radiation includes a non-coherent electromagnetic radiation emitter.

34. (original) The mass storage device of claim 26 wherein the means for controlling the rotational speed includes:
a spindle coupled to the media and
a motor coupled to the spindle.

35. (currently amended) The mass storage device of claim ~~34~~ 26 wherein the means for controlling rotational speed includes a motor controller configured to control the rotational speed of the media to 0.25 meters/second at an accuracy of 0.02 percent.

36. (canceled).

37. (canceled).

38. (original) The mass storage device of claim 26 wherein the means for controlling includes placement means for controlling a placement of a beam of the electromagnetic radiation on the media.

39. (currently amended) A program storage system readable by a computer, tangibly embodying a program, applet, or instructions executable by the computer to perform method steps for using sensed electromagnetic radiation to sense media speed ~~control exposure of media to a first source of electromagnetic radiation, the media having a pattern of reflective and non-reflective regions aligned circularly about a rim of the media or a pattern of magnetic and non-magnetic regions aligned circularly about a rim of the media at least one patterned region aligned circularly about a rim of the media,~~ the method comprising:

- rotating the media;
- sensing a frequency of electromagnetic radiation radiating from the reflective regions of the pattern or from the magnetic regions of the pattern ~~the at least one patterned region;~~ and
- controlling, with the sensed frequency, ~~exposure of the media with the first source of electromagnetic radiation~~ a rotational speed of the media.

40. (currently amended) The program storage system of claim 39, further comprising determining from the sensed frequency a rotational speed of the media ~~emitting electromagnetic radiation to the patterned region using a second source of electromagnetic radiation.~~

41. (canceled).

42. (canceled).

43. (canceled).

44. (canceled).

45. (currently amended) The program storage system of claim 39 wherein controlling a rotational speed of the media ~~exposure of the media with the first source of electromagnetic radiation~~ includes controlling the rotational speed of a spindle onto which the media is fixed ~~based on the sensed frequency of electromagnetic radiation from the at least one patterned region.~~

46. (currently amended) The program storage system of claim 39 wherein controlling a rotational speed of the media ~~exposure of the media with the first source of electromagnetic radiation~~ includes controlling the rotational accuracy of a spindle onto which the media is fixed to allow placement to within a quarter of a pixel at 600 dpi on the media.

47. (canceled).

48. (canceled).

49. (canceled).

50. (canceled).